

Supplied Report Reference

This section describes the reports supplied with Adabas Review. These reports may be used without modification, or they may be customized to suit individual site requirements.

The documentation for each report lists the fields (system names), report options, and report processing rules (if any) used to produce the report. To examine these report definitions online, read *Editing Existing Reports*.

The following reports are described:

- Application File Field Usage Report
- Adabas Buffer Pool Display Report
- Command Logging Report
- Commands By Hour Report
- Cost Accounting Example Report
- Descriptor Usage Report
- Exceptional Response Codes Report
- File Usage Report
- Hourly Database Overview Report
- I/O Count by Hour Report
- I/O Summary... Reports
- Job Overview Report
- Last 500 Adabas Calls Report
- Long Running Commands Report
- Natural Program Trace Report
- Natural Summary Report
- Natural Transaction Trace Report
- PRILOG Report
- Rate of Commands and I/Os by Date Report
- Rate of Commands and I/Os by Hour Report
- Summary Report by File Report

- Thread Activity Report
- Thread Activity by Command Report
- Transaction Count... Reports
- Transaction Detailed Information Report
- Transaction Summary by User Report
- Who is Using Natural? Report
- Who Uses SYSMAIN? Report
- Worst Calls... Reports
- Worst Transactions... Reports

Application File Field Usage Report

The Application File Field Usage report shows the processing activity, by file, for Natural application programs. Processing activity information includes the total number of commands and I/Os, as well as the total amount of command response time (CMDRESP) and time used to process in the Adabas thread (ADADURA).

| 20:50:35 | | APPLICATION FILE FIELD USAGE | | | 2009-06-18 | |
|----------|------|------------------------------|----------------------|-------------------|-------------------|--|
| | | 2009-06-18 Thru 2009-06-18 | | | HUB=15690 | |
| | | | | | Page: 1 | |
| NAT-Appl | File | Fld-Name | Total Num-of-I/Os | Total Commands | Total Cmd-Resp | |
| | 0 | | 0 | 34 | 0.113408 | |
| | 50 | | 0 | 85 | 6.183168 | |
| | 50 | AB | 0 | 14 | 4.649984 | |
| | 50 | AI | 0 | 5 | 2.564480 | |
| | 50 | AK | 0 | 5 | 2.564480 | |
| | 50 | AL | 0 | 5 | 2.564480 | |
| | 50 | AM | 0 | 5 | 2.564480 | |
| | 50 | AN | 0 | 5 | 2.564480 | |
| | 50 | AZ | 0 | 5 | 2.564480 | |
| | 50 | OA | 0 | 163 | 12.200576 | |
| | 50 | OB | 0 | 15 | 1.862784 | |
| | 50 | OC | 0 | 101 | 7.873152 | |
| | 50 | OD | 0 | 103 | 8.088064 | |

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---

Help Exit + ==> Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| NATAPPL | 1 | | | | | | | |
| FILE | 2 | | | | | | | |
| FBFIELDS | 3 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | | | | |
| ADADURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Adabas Buffer Pool Display Report

The Adabas Buffer Pool Display Report shows the usage of Adabas buffer pools.

```

22:31:56                A D A B A S  -  R E V I E W                2009-06-19
                        ADABAS Buffer Pool Display                HUB=15690

nnnnK  = Buffer Size ----- = Max Used ===== = Currently Used

!   47003K                29K      0K      0K      0K      602K
100% ---45%-             --605%-  ==605%=  ---45%-  =====  --828%-
!   -----             -----  =====  -----  =====  -----
!   -----             -----  =====  -----  =====  -----
75%  -----             -----  =====  -----  =====  -----
!   -----             -----  =====  -----  =====  -----
!   -----             19K      -----  -----  -----  -----
50%  -----             ---50%-  -----  =====  -----  -----
!   -----             -----  =====  -----  =====  -----
!   -----             -----  =====  -----  =====  -----
25%  -----             -----  =====  -----  =====  -----
!   -----             -----  =====  -----  =====  -----
!   -----             -----  =====  -----  =====  -----
!   -----             33224K  ===10%=  ===1%=  =====  -----
0%  -----             -----  -----  -----  =====  -----
-----
      AB-POOL  COMMAND  HOLD      USER      ISN TAB  SEQ TAB  FORMAT  WORK

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                                     Menu
    
```

Command Logging Report

The Command Logging report is a detailed report that contains the necessary report options for using the command logging features of Adabas Review. It may be used as an example for creating reports that perform command logging. For more information about the use of the command logging report options, refer to the section *Logging Options*.

The following report options are required for command logging and are used in this report:

| | |
|-------------|--------|
| Detail/Sum | D |
| Print | N |
| Log | Y |
| File | name |
| Num of Logs | number |
| Log Size | number |

A command log report must be a detailed report so that it produces a straight recording of each command processed by Adabas.

Data fields are not used in reports that perform command logging. Because it is a detailed report and cannot be viewed online, and because the PRINT option is set to "N", field information entered on the Edit Report screen produces no effect.

The following report options used in this report are *not* required for command logging:

| | |
|-----------|---|
| AutoStart | Y |
| Log FB | Y |
| Log SB | Y |
| Log RB | Y |
| Log VB | Y |
| Log IB | Y |
| Log IO | Y |

Commands By Hour Report

The Commands by Hour report shows Adabas processing activity, by command, on an hourly basis. The processing activity shown includes the total number of commands, the total and average number of I/Os, and the total command response time.

```

03:39:06                                COMMANDS BY HOUR                                2009-06-20
                                03:37:16 2009-06-20 Thru 03:38:58 2009-06-20                                HUB=15690
                                                                                                            Page:    1
Time  Cmd      Total          Total          Total          Avg
      Num-of-IOS  Commands      Cmd-Resp      Num-of-IOS
-----
03:00 L3           0           12           0.998400         0.000
      RC           0            2           0.003584         0.000
      S1           0           28           3.218432         0.000
***** ***           0           42           4.220416         0.000
***** ***           0           42           4.220416         0.000

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --          +          ==>  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| HOUR | 1 | | | | | | | |
| CMD | 2 | | | | | | | |
| IOS | | Y | | | Y | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | Y | | | |

Report Options Selected

AUTOSTART = Y
MAX K = 8

Report Processing Rules

None.

Cost Accounting Example Report

The Cost Accounting Example report is a summary report designed to show how Adabas Review may be used to produce cost accounting reports about Adabas resource consumption.

For more information about this report, see the section *Cost Accounting Example*.

Descriptor Usage Report

The Descriptor Usage Report shows processing done for Adabas fields used as descriptors. Commands are shown with the descriptor name for the field on which the command was performed. Processing statistics are given for each command, whether or not the command was performed on a descriptor.

```

03:41:00                                DESCRIPTOR USAGE REPORT                                2009-06-20
                                03:37:25 2009-06-20 Thru 03:40:29 2009-06-20                                HUB=15690
                                                                                               Page:    1
File  Cmd Desc-Name      Total      Total      Total      Total
                        Num-of-IOs  Commands  ADA-Dur   ISN-Qty
-----
   0 RC                                0          3      0.000336      0
***** *** *****
  50 L3 O1                            0          3      0.000336      0
      S1                               0          12     0.000592      0
      S1                               0          2     0.000416      2
      S1 O1                            0          25     0.005552     25
      S1 T1                            0          1     0.000304      1
***** *** *****
***** *** *****
                                0          40     0.006864     28
                                0          43     0.007200     28

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| FILE | 1 | | | | | | | |
| CMD | 2 | | | | | | | |
| SBFIELDS | 3 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| ISNQ | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Exceptional Response Codes Report

The Exceptional Response Codes report gives a snapshot of the processing environment at the time that an Adabas command returns an exceptional response code. (Response codes are exceptional if they are *not* equal to 0, 3, 9, 17, or 48.) The information collected by this report may be used to help determine the cause and resolve the condition causing the exceptional response code.

| Seq | CQ-Job | TPUserid | NAT-Appl | NAT-Pgm | NAT-Stmt | Cmd | File | Rsp | Rspsub |
|---|----------|----------|----------|----------|----------|-----|------|-----|--------|
| 203871 | COMPLETE | USER1 | PAA | MGLNVAUD | 3110 | L4 | 63 | 113 | 0 |
| 204158 | COMPLETE | USER2 | PAA | MGLNVAUD | 3110 | L4 | 63 | 113 | 0 |
| 204689 | COMPLETE | USER3 | PAA | MGLNVAUD | 3110 | L4 | 63 | 113 | 0 |
| ***** E N D O F R E P O R T ***** | | | | | | | | | |
| Command: _____ | | | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | | | | | |
| Help Sort Exit + ===> Menu | | | | | | | | | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQ | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| NATSTMT | 6 | | | | | | | |
| CMD | 7 | | | | | | | |
| FILE | 8 | | | | | | | |
| RSP | 9 | | | | | | | |
| RSPSUB | 10 | | | | | | | |
| IOS | 11 | | | | | | | |
| ADADURA | 12 | | | | | | | |
| CID | 13 | | | | | | | |

Report Options Selected

AUTOSTART = Y

Report Processing Rules

RSP NE (0,3,9,17,48)

File Usage Report

The File Usage report breaks down file usage into the types of processing done to the file. It shows the total number of associator and data storage I/Os executed, the descriptor updates performed, the command response time used, the amount of Adabas processing time required, and the total number of commands.

```

03:43:13                                FILE USAGE                                2009-06-20
                                03:37:35 2009-06-20 Thru 03:42:23 2009-06-20                                HUB=15690
                                                                                               Page:    1
File      Total      Total      Total      Total      Total
         Asso-I/Os  Data-I/Os  Commands  Desc-Upd  Cmd-Resp
-----
      0           0           0           4           0           0.007168
     50           0           0           38          0           3.986944
*****          0           0           42          0           3.994112

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                ==>  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| FILE | 1 | | | | | | | |
| ASSOIO | | Y | | | | | | |
| DATAIO | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| DESUPD | | Y | | | | | | |
| CMDRESP | | Y | | | | | | |
| DURATION | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Hourly Database Overview Report

The Hourly Database Overview report shows the processing done in the database which is currently selected, on an hourly basis. It gives the total number of commands and I/Os, the total and average command response time (CMDRESP), and the average Adabas thread processing time (ADADURA).

| 04:08:00 | | HOURLY DATABASE OVERVIEW | | | | 2009-06-20 |
|---|-------|--|-------------------|-------------------|------------------|------------|
| | | 03:37:42 2009-06-20 Thru 04:07:29 2009-06-20 | | | | HUB=15690 |
| | | | | | | Page: 1 |
| Time | File | Total Num-of-I/Os | Total Commands | Total Cmd-Resp | Total ADA-Dur | |
| 03:00 | 0 | 0 | 12 | 0.021504 | 0.001872 | |
| | 50 | 0 | 51 | 5.481216 | 0.008976 | |
| ***** | ***** | 0 | 63 | 5.502720 | 0.010848 | |
| 04:00 | 0 | 0 | 4 | 0.007168 | 0.000624 | |
| | 50 | 0 | 8 | 0.919552 | 0.001840 | |
| ***** | ***** | 0 | 12 | 0.926720 | 0.002464 | |
| ***** | ***** | 0 | 75 | 6.429440 | 0.013312 | |
| ***** E N D O F R E P O R T ***** | | | | | | |
| Command: _____ | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | | |
| Help Sort Exit -- + ==> Menu | | | | | | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| HOUR | 1 | | | | | | | |
| FILE | 2 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | Y | | | |
| ADADURA | | Y | | | Y | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

I/O Count by Hour Report

The I/O Count by Hour report calculates and displays information on an hourly basis. It shows the total I/Os, and breaks them into totals for the associator, the data storage area, and the work area. Total number of commands is also shown. The processing rule "IOS GT 0" assures that reporting is on commands issuing at least one I/O.

```

11:35:38                               IO COUNT BY HOUR                               2003-07-07
                                10:32:13 1999-06-23 Thru 11:35:37 1999-06-23   LOCL=00009
Time      Total      Total      Total      Total      Total
         IOs      Commands  Asso-IOs  Data-IOs  Work-IOs
-----
10:00      3913         2140         1862         1737         314
11:00      5245         2899         2554         2319         372
*****      9158         5039         4416         4056         686
*****  E N D   O F   R E P O R T   *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Sort  Exit                               +                               Menu

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| HOUR | 1 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| ASSOIO | | Y | | | | | | |
| DATAIO | | Y | | | | | | |
| WORKIO | | Y | | | | | | |

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

I/O Summary... Reports

The two I/O summary reports, I/O Summary by RABN and *I/O Summary by Volume*, may be used to determine the components against which I/Os are performed. For commands issuing at least one I/O, these reports list the Adabas component against which the I/O was performed, and either the Adabas relative block number or the volume serial number of the device.

- I/O Summary by RABN Report
- I/O Summary by Volume Report

I/O Summary by RABN Report

The I/O Summary by Volume report is an example of an I/O summary report.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| IOCOMP | 1 | | | | | | | |
| IORABN | 2 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

I/O Summary by Volume Report

The I/O Summary by Volume report is an example of an I/O summary report.

| Volser | IO-TYPE | IO-Comp | Commands |
|--------|---------|---------|----------|
| Total | | | |
| RD0008 | ASSO | AC1 | 1172 |
| | ASSO | AC2 | 7 |
| | ASSO | AS | 386 |
| | ASSO | FCB | 193 |
| | ASSO | FDT | 103 |
| | ASSO | NI1 | 1704 |
| | ASSO | UI1 | 881 |
| | ASSO | UI2 | 12 |
| | DATA | DS | 161 |
| | DATA | DS1 | 3562 |
| | DATA | DS2 | 183 |
| | DATA | DS3 | 37 |
| | DATA | DS4 | 150 |

11:36:43 IO SUMMARY BY VOLUME 2003-07-07
10:33:08 1999-06-23 Thru 11:36:42 1999-06-23 LOCL=00009

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Sort Exit + Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| IOVOLSER | 1 | | | | | | | |
| IOTYPE | 2 | | | | | | | |
| IOCOMP | 3 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

Job Overview Report

The Job Overview report shows processing activity for jobs or tasks issuing Adabas calls. For the job or task, it shows the file number accessed, the total number of I/Os and commands, and the total command response time (CMDRESP) and Adabas thread processing time used (ADADURA).

```

03:55:38                                JOB OVERVIEW                                2009-06-20
                                03:38:08 2009-06-20 Thru 03:54:30 2009-06-20                                HUB=15690
                                                                                               Page: 1
CQ-Job  File  Cmd  Total      Total      Total      Total
-----  ---  ---  Num-of-IOs  Commands  Cmd-Resp  ADA-Dur
-----  ---  ---  -----
?~??q   0  RC           0           8           0.014336    0.001184
          50 L3           0           12          0.998400    0.000592
          50 S1           0           26          2.988544    0.005344
***** ***** ***           0           46          4.001280    0.007120
***** ***** ***           0           46          4.001280    0.007120

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit           --           +           Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected

- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| CQJOB | 1 | | | | | | | |
| FILE | 2 | | | | | | | |
| CMD | 3 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | | | | |
| ADADURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Last 500 Adabas Calls Report

The Last 500 Adabas Calls report lists the last 500 Adabas call in order by Adabas sequence number. This report uses the report option "DISPLAY BY=sortedde" which lists the calls in order by sequence number, starting with the most recent sequence number first.

The order in which the sequence numbers are displayed may be changed by using a different "DISPLAY BY=" option. The number of calls shown can be varied from 500, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=100" displays the last 100 Adabas calls.


```

03:57:18                                LAST 500 ADABAS CALLS                                2009-06-20
                                03:38:15 2009-06-20 Thru 03:57:07 2009-06-20                                HUB=15690
                                                                                                            Page:    1
Sequence  TPUserid NAT-Appl NAT-Pgm   File  Cmd Rsp      Total-Dur
-----
 228047  USER1    SYS410DB SR-00038   0  RC    0      0.000304
 228046  USER1    SYS410DB SR-00038  17  L3    0      0.000864
 228045  USER1    SYS410DB SR-00038  17  L3    0      0.005328
 228044  USER1    SYS410DB SR-00038  17  L3    0      0.000512
 228043  USER1    SYS410DB SR-00038  17  L3    0      0.004272
 228042  USER1    SYS410DB SR-00038  17  L3    0      0.000640
 228041  USER1    SYS410DB SR-00038  17  L3    0      0.089600
 228040  USER2    SYS410DB P-DBLS    0  RC    0      0.000320
 228039  USER3    SYS410DB S-DBEXIT   0  ET    0      0.030048
 228038  USER3    SYS410DB S-DBEXIT  17  A1    0      0.029248
 228037  USER3    SYS410DB S-DBEXIT  17  S4    0      0.000768
 228036  USER3    SYS410DB S-DBEXIT  17  A1    0      0.026256
 228035  USER3    SYS410DB S-DBEXIT  17  S4    0      0.000544
Command:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                                +                                ==>  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQ | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| NATAPPL | 3 | | | | | | | |
| NATPROG | 4 | | | | | | | |
| FILE | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| RSP | 7 | | | | | | | |
| TOTDURA | 8 | | | | | | | |
| IOS | 9 | | | | | | | |

Report Options Selected

```
WRAPPING = Y
MAX K = 48
DISPLAY BY = SORTEDDE
ENTRIES = 500
```

Report Processing Rules

None.

Long Running Commands Report

The Long Running Commands report shows commands with a duration greater than three seconds and I/Os greater than 200.

The report processing rule "ADADURA GT 3.0" determines that commands with a duration greater than three seconds are selected for this report; to change the duration for the commands selected, change the number "3.0" to any number desired. Similarly, the report processing rule "IOS GT 200" selects commands with more than 200 I/Os; to change the I/O criterion for the commands selection, change "200" to any number desired.

| Seq | CQ-Job | TPUserid | NAT-Appl | NAT-Pgm | Cmd | File | Rsp | IOs |
|---|---------|----------|-----------------------|---------|----------|------------|-----|------------|
| 11:54:53 | | | LONG RUNNING COMMANDS | | | | | 2003-07-07 |
| | | 09:52:56 | 1999-06-16 | Thru | 11:50:35 | 1999-06-16 | | LOCL=00009 |
| 13375591 | COM000R | USER1 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 389 |
| 13377560 | COM000R | USER2 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 383 |
| 13384954 | COM000R | USER3 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 393 |
| 13390282 | COM000R | USER4 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 386 |
| 13393597 | COM000R | USER5 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 388 |
| 13404627 | COM000R | USER6 | SYSCNT2 | NIDES2 | S1 | 65 | 0 | 489 |
| ***** | | | | | | | | |
| ***** E N D O F R E P O R T ***** | | | | | | | | |
| Command: _____ | | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | | | | |
| Help Sort Exit + ==> Menu | | | | | | | | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQ | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| RSP | 8 | | | | | | | |
| IOS | 9 | | | | | | | |
| ADADURA | 10 | | | | | | | |
| CID | 11 | | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

```
ADADURA GT 3.0 AND
IOS GT 200
```

Natural Program Trace Report

The Natural Program Trace report shows processing activity for a specific Natural program, sorted by Adabas sequence number. To specify the program to be reported on, use the processing rules:

```
NATAPPL EQ MYLOGON
```

where *MYLOGON* is the program library name; and

```
NATPROG EQ MYPROG
```

where *MYPROG* is the program name.

Here is a sample of the report:

| 15:14:55 | | NATURAL PROGRAM TRACE | | | | 2003-07-07 | |
|---|-----|--|-----|----------|----------|------------|-----|
| | | 14:12:56 1999-06-28 Thru 14:12:59 1999-06-28 | | | | LOCL=00009 | |
| Seq | Cmd | File | Rsp | CID | ADA-Dur | Cmd-Resp | IOs |
| 375126 | L3 | 12 | 0 | 09700101 | 0.004672 | 0.000112 | 1 |
| 375127 | L3 | 12 | 0 | 09700101 | 0.003184 | 0.000112 | 0 |
| 375128 | L3 | 12 | 0 | 09700101 | 0.000384 | 0.000112 | 0 |
| 375129 | L3 | 12 | 0 | 09700101 | 0.000496 | 0.000112 | 0 |
| 375130 | L3 | 12 | 0 | 09700101 | 0.000384 | 0.000112 | 0 |
| 375131 | L3 | 12 | 0 | 09700101 | 0.000352 | 0.000112 | 0 |
| 375132 | L3 | 12 | 0 | 09700101 | 0.001456 | 0.000112 | 0 |
| 375133 | L3 | 12 | 0 | 09700101 | 0.000352 | 0.000112 | 0 |
| 375134 | L3 | 12 | 0 | 09700101 | 0.000352 | 0.000112 | 0 |
| 375135 | L3 | 12 | 0 | 09700101 | 0.000432 | 0.000112 | 0 |
| 375136 | L3 | 12 | 0 | 09700101 | 0.000528 | 0.000112 | 0 |
| 375137 | L3 | 12 | 0 | 09700101 | 0.000352 | 0.000112 | 0 |
| 375138 | S1 | 0 | 17 | 47550101 | 0.000048 | 0.000144 | 0 |
| Command: _____ | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | | | |
| Help | | Sort | | Exit | | Menu | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CMD | 2 | | | | | | | |
| FILE | 3 | | | | | | | |
| RSP | 4 | | | | | | | |
| CID | 5 | | | | | | | |
| ADADURA | 6 | | | | | | | |
| CMDRESP | 7 | | | | | | | |
| IOS | 8 | | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

NATAPPL EQ MYLOGON AND
 NATPROG EQ MYPROG

Natural Summary Report

The Natural Summary report shows processing activity for a Natural application on a program-by-program basis.

| 10:57:09 | | NATURAL SUMMARY | | | | 2010-06-24 | |
|----------|----------|--|-----|---------------------|-------------------|-------------------|--|
| | | 10:56:59 2010-06-24 Thru 10:57:04 2010-06-24 | | | | HUB=00205 | |
| | | | | | | Page: 1 | |
| NAT-Appl | NAT-Pgm | File | Cmd | Total Num-of-IOs | Total Commands | Total Cmd-Resp | |
| SYSREVDB | N--FKEYW | 0 | RC | 0 | 1 | 1.000000 | |
| | N--FKEYW | 8 | L3 | 0 | 1 | 1.000000 | |
| | N--RPROF | 0 | RC | 0 | 2 | 2.000000 | |
| | N--RPROF | 8 | L3 | 0 | 2 | 2.000000 | |
| | N--UPROF | 8 | S1 | 0 | 2 | 2.000000 | |
| | N-NTFILE | 8 | S1 | 0 | 2 | 2.000000 | |
| | P-DBLR | 0 | RC | 0 | 3 | 3.000000 | |
| | P-DBLR | 8 | L3 | 0 | 1 | 1.000000 | |
| | P-DBLR | 8 | S1 | 1 | 2 | 2.000000 | |
| | P-DBLR | 33 | S1 | 0 | 1 | 1.000000 | |
| | P-DBLS | 0 | RC | 0 | 1 | 1.000000 | |
| | P-DBLS | 8 | L3 | 0 | 1 | 1.000000 | |
| | P-DBLS | 8 | S1 | 0 | 1 | 1.000000 | |

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- Rdsp + ==> Menu

```

10:57:09                                NATURAL SUMMARY                                2010-06-24
                                10:56:59 2010-06-24 Thru 10:57:04 2010-06-24                                HUB=00205

      Total
NAT-Appl  ADA-Dur
-----
SYSREVD  1.048576
          1.048576
          2.097152
          2.097152
          2.097152
          2.097152
          3.145728
          1.048576
          2.097152
          1.048576
          1.048576
          1.048576
          1.048576

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --   Rdsp  +           <===      Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| NATAPPL | 1 | | | | | | | |
| NATPROG | 2 | | | | | | | |
| FILE | 3 | | | | | | | |
| CMD | 4 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | | | | |
| ADADURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Natural Transaction Trace Report

The Natural Transaction Trace report shows processing activity by transaction number using the TPTRANNM field. Data is broken down by Natural application and program name.

| Trans Nr | NAT-Appl | NAT-Pgm | File | Cmd | Rsp | Total Commands |
|---|---------------------------|------------|------|----------|------------|-------------------|
| 04:06:06 | NATURAL TRANSACTION TRACE | | | | 2009-06-20 | |
| | 03:38:39 | 2009-06-20 | Thru | 04:05:15 | 2009-06-20 | |
| | | | | | | HUB=15690 |
| | | | | | | Page: 1 |
| 140 | SYS410DB | P-DBST | 0 | RC | 0 | 1 |
| | SYS410DB | P-DBST | 0 | S1 | 17 | 1 |
| | SYS410DB | S-DBEXIT | 0 | ET | 0 | 1 |
| ***** | ***** | ***** | **** | *** | **** | 3 |
| 141 | SYS410DB | S-ST241 | 0 | ET | 0 | 1 |
| | SYS410DB | S-ST241 | 17 | A1 | 0 | 2 |
| | SYS410DB | S-ST241 | 17 | S4 | 0 | 2 |
| ***** | ***** | ***** | **** | *** | **** | 5 |
| 595 | PAC13 | | 15 | L3 | 0 | 11 |
| ***** | ***** | ***** | **** | *** | **** | 11 |
| 596 | PAC13 | | 15 | L3 | 0 | 11 |
| ***** | ***** | ***** | **** | *** | **** | 11 |
| 597 | PAC13 | | 0 | RC | 0 | 1 |
| Command: _____ | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | | |
| Help Sort Exit | | | + | | Menu | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPTRANNM | 1 | | | | | | | |
| NATAPPL | 2 | | | | | | | |
| NATPROG | 3 | | | | | | | |
| FILE | 4 | | | | | | | |
| CMD | 5 | | | | | | | |
| RSP | 6 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

PRILOG Report

The PRILOG Report duplicates the information provided by the PRILOG program, which is supplied with Adabas and is used to print command logs.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| TIME | 2 | | | | | | | |
| DURATION | 3 | | | | | | | |
| CQJOB | 4 | | | | | | | |
| USERID | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| RSP | 7 | | | | | | | |
| CID | 8 | | | | | | | |
| FILE | 9 | | | | | | | |
| ISN | 10 | | | | | | | |
| THREAD | 11 | | | | | | | |
| PRI | 12 | | | | | | | |
| ASSOIO | 13 | | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Rate of Commands and I/Os by Date Report

The Rate of Commands and I/Os by Date report calculates and displays the total and average rate of commands and I/Os by hour for a specific date.

```

12:30:37                RATE OF COMMANDS AND IOS BY DATE                2009-06-22
                        04:10:23 2009-06-20 Thru 12:29:51 2009-06-22      HUB=15690
                                                                Page:    1

      Date      Time      Total      Total      Rate      Rate
      -----      -----      -----      -----      -----      -----
      Num-of-IOS  Commands  Num-of-IOS  Commands

2009-06-20 04:00          0          41          0.0          0.0
*****
*****          0          41
2009-06-22 12:00          0          174          0.0          0.0
*****
*****          0          174
*****
*****          0          215

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| DATE | 1 | | | | | | | |
| HOUR | 2 | | | | | | | |
| IOS | | Y | | | | | Y | |
| COMMANDS | | Y | | | | | Y | |

Report Options Selected

MAX K = 16

Report Processing Rules

None.

Rate of Commands and I/Os by Hour Report

The Rate of Commands and I/Os by Hour report calculates and displays the total and average rate of commands and I/Os by hour.

```

12:32:48                RATE OF COMMANDS AND IOS BY HOUR                2009-06-22
                        04:10:29 2009-06-20 Thru 12:32:14 2009-06-22      HUB=15690
                                                                Page:    1

Time      Total      Total      Rate      Rate
Num-of-I/Os  Commands  Num-of-I/Os  Commands
-----
04:00          41         71         0.0         0.0
05:00        2503        6040         0.7         1.7
06:00        5189       12280         1.5         3.4
07:00        3408        9674         1.0         2.8
08:00       12024       39308         3.4        11.1
09:00       10970       24753         9.9        22.3
*****       34135       92126

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                               +                               Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| HOUR | 1 | | | | | | | |
| IOS | | Y | | | | | Y | |
| COMMANDS | | Y | | | | | Y | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Summary Report by File Report

The Summary Report by File shows Adabas processing activity by file number and file name. Within each file, command types are listed, showing the total number of this type of command, total and average I/Os, total and average Adabas thread processing time (ADADURA), and total and average command response time (CMDRESP).

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                        04:10:37 2009-06-20 Thru 12:34:40 2009-06-22      HUB=15690
                                                                Page:    1

```

| File | File Name | Cmd | Total Num-of-I/Os | Total Commands | Total ADA-Dur |
|-----------------------------------|----------------|-----|----------------------|-------------------|------------------|
| 0 | | OP | 0 | 1 | 0.096368 |
| | | RC | 0 | 24 | 0.002512 |
| ***** | ***** | *** | 0 | 25 | 0.098880 |
| 50 | | L3 | 0 | 1 | 0.000000 |
| | ?USER Reposito | L1 | 0 | 1 | 0.000288 |
| | ?USER Reposito | L3 | 0 | 165 | 0.035312 |
| | ?USER Reposito | S1 | 0 | 28 | 0.014752 |
| ***** | ***** | *** | 0 | 195 | 0.050352 |
| ***** | ***** | *** | 0 | 220 | 0.149232 |
| ***** E N D O F R E P O R T ***** | | | | | |

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                ==>  Menu

```

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                04:10:37 2009-06-20 Thru 12:34:40 2009-06-22                HUB=15690

```

| File | Total Cmd-Resp | Avg Num-of-IOs | Avg ADA-Dur | Avg Cmd-Resp |
|------|-------------------|-------------------|----------------|-----------------|
| 0 | 0.506112 | 0.000 | 0.096368 | 0.506112 |
| | 0.043008 | 0.000 | 0.000104 | 0.001792 |
| | 0.549120 | 0.000 | 0.003955 | 0.021964 |
| 50 | 0.081920 | 0.000 | 0.000000 | 0.081920 |
| | 0.704768 | 0.000 | 0.000288 | 0.704768 |
| | 13.647872 | 0.000 | 0.000214 | 0.082714 |
| | 3.218432 | 0.000 | 0.000526 | 0.114944 |
| | 17.652992 | 0.000 | 0.000258 | 0.090528 |
| | 18.202112 | 0.000 | 0.000678 | 0.082736 |

```

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                <===                Menu

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| FILE | 1 | | | | | | | |
| FILENAME | 2 | | | | | | | |
| CMD | 3 | | | | | | | |
| IOS | | Y | | | Y | | | |
| COMMANDS | | Y | | | | | | |
| ADADURA | | Y | | | Y | | | |
| CMDRESP | | Y | | | Y | | | |

Report Options Selected

AUTOSTART = Y
 MAX K = 8

Report Processing Rules

None.

Thread Activity Report

The Thread Activity report shows processing activity broken down for individual Adabas threads. Each thread number shows the total number of commands, the total and average number of I/Os, and the average amount of command processing time per command; i.e., the time the command spent in the command queue added to the Adabas command processing time (TOTDURA).

```

12:37:06                                THREAD ACTIVITY                                2009-06-22
                                04:10:46 2009-06-20 Thru 12:36:44 2009-06-22                                HUB=15690
                                                                                                            Page:    1

```

| Thread | Total Num-of-I/Os | Total Commands | Avg Num-of-I/Os | Avg Total-Dur |
|-----------------------------------|-------------------|----------------|-----------------|---------------|
| 1 | 12743 | 27843 | 0.457 | 0.011301 |
| 2 | 470 | 1024 | 0.458 | 0.016938 |
| 3 | 133 | 159 | 0.836 | 0.019639 |
| ***** | 13346 | 29026 | 0.459 | 0.011546 |
| ***** E N D O F R E P O R T ***** | | | | |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit + Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| THREAD | 1 | | | | | | | |
| IOS | | Y | | | Y | | | |
| COMMANDS | | Y | | | | | | |
| TOTDURA | | | | | Y | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Thread Activity by Command Report

The Thread Activity by Command report breaks thread activity down into command types, then shows the total number of commands, the total and average number of I/Os per command, and the total and average amount of command processing time per command.

| Thread | Cmd | Total Num-of-I/Os | Total Commands | Total Total-Dur | Total ADA-Dur |
|---|-----|----------------------|-------------------|--------------------|------------------|
| 1 | L3 | 0 | 18 | 65281.124466 | 0.002160 |
| | RC | 0 | 1 | 3840.066162 | 0.000144 |
| | S1 | 0 | 36 | 138242.384728 | 0.008080 |
| ***** | *** | 0 | 55 | 207363.575356 | 0.010384 |
| ***** | *** | 0 | 55 | 207363.575356 | 0.010384 |
| ***** E N D O F R E P O R T ***** | | | | | |
| Command: _____ | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | |
| Help Sort Exit -- + ==> Menu | | | | | |

```

12:42:29                                THREAD ACTIVITY BY COMMAND                                2009-06-22
                                12:40:31 2009-06-22 Thru 12:42:13 2009-06-22                                HUB=15690

```

| Thread | Total CQ Dur | Avg Num-of-IOs | Avg Total-Dur | Avg ADA-Dur |
|--------|-----------------|-------------------|------------------|----------------|
| 1 | 65281.122306 | 0.000 | 3626.729137 | 0.000120 |
| | 3840.066018 | 0.000 | 3840.066162 | 0.000144 |
| | 138242.376648 | 0.000 | 3840.066242 | 0.000224 |
| | 207363.564972 | 0.000 | 3770.246824 | 0.000188 |
| | 207363.564972 | 0.000 | 3770.246824 | 0.000188 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- + <=== ==> Menu

```

12:42:29                                THREAD ACTIVITY BY COMMAND                                2009-06-22
                                12:40:31 2009-06-22 Thru 12:42:13 2009-06-22                                HUB=15690

```

| Thread | Avg CQ Dur |
|--------|---------------|
| 1 | 3626.729017 |
| | 3840.066018 |
| | 3840.066018 |
| | 3770.246635 |
| | 3770.246635 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected

- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| THREAD | 1 | | | | | | | |
| CMD | 2 | | | | | | | |
| IOS | | Y | | | Y | | | |
| COMMANDS | | Y | | | | | | |
| TOTDURA | | Y | | | Y | | | |
| ADADURA | | Y | | | Y | | | |
| CQDURA | | Y | | | Y | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Transaction Count... Reports

For transaction numbers not equal to zero, the Transaction Count reports calculate and display the *total*:

- number of completed Adabas transactions for the user;
- number of commands performed for the transactions;
- number of I/Os performed for the transactions;
- amount of command processing time; i.e., the time Adabas spent to process the command, and the time the command spent in the command queue;
- amount of time spent by Adabas to process the command;
- amount of time the command spent in the command queue.
- Transaction Count by Job Report
- Transaction Count by Job-NATAPPL Report
- Transaction Count by Job-User Report
- Transaction Count by Natural Report

Transaction Count by Job Report

The Transaction Count by Job report is an example of a transaction count report.

| CQ-Job | Total Trans-Cnt | Total Commands | Total IOs | Total Total-Dur |
|-----------------------------------|--------------------|-------------------|--------------|--------------------|
| CICSPROD | 35971 | 322386 | 169800 | 2751.100528 |
| CICSTEST | 1352 | 19816 | 8503 | 377.155664 |
| USER1 | 1387 | 19958 | 10718 | 412.490496 |
| USER2 | 59 | 604 | 192 | 5.377152 |
| BATCHJOB | 4 | 123 | 53 | 1.454592 |
| TSOUSER3 | 4 | 144 | 104 | 3.208336 |
| ***** | 38777 | 363031 | 189370 | 3550.786768 |
| ***** E N D O F R E P O R T ***** | | | | |

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit + ==> Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| CQJOB | 1 | | | | | | | |
| TPTRANCT | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Count by Job-NATAPPL Report

The Transaction Count by Job-NATAPPL report includes and sorts the transaction count report by job and Natural application name.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| CQJOB | 1 | | | | | | | |
| NATAPPL | 2 | | | | | | | |
| TPTRANCT | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Count by Job-User Report

The Transaction Count by Job-User report includes and sorts the transaction count report by job and TP monitor user ID.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| CQJOB | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| TPTRANCT | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Count by Natural Report

The Transaction Count by Job-User report includes and sorts the transaction count report by Natural application name and program name.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| NATAPPL | 1 | | | | | | | |
| NATPROG | 2 | | | | | | | |
| TPTRANCT | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Detailed Information Report

The Transaction Detailed Information report displays detailed processing information, by transaction number, for each transaction not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

Here is a sample report:

| Trans Nr | Seq | TPUserid | Cmd | File | Rsp | IOs | ADA-Dur |
|---|--|----------|-----|------|-----|-----|------------|
| 10:01:46 | TRANSACTION DETAILED INFORMATION | | | | | | 2003-07-07 |
| | 09:54:54 1999-06-26 Thru 09:56:18 1999-06-26 | | | | | | LOCL=00009 |
| 87 | 50967 | USER1 | RC | 0 | 0 | 0 | 0.000080 |
| ***** | | | | | | | |
| 88 | 50968 | USER1 | S4 | 17 | 0 | 0 | 0.000320 |
| | 50969 | USER1 | A1 | 17 | 0 | 0 | 0.000288 |
| | 50970 | USER1 | S4 | 17 | 0 | 0 | 0.000464 |
| | 50971 | USER1 | A1 | 17 | 0 | 0 | 0.002064 |
| | 50972 | USER1 | ET | 0 | 0 | 1 | 0.000064 |
| ***** | | | | | | | |
| 89 | 51005 | USER2 | S4 | 17 | 0 | 0 | 0.000384 |
| | 51006 | USER2 | A1 | 17 | 0 | 0 | 0.000400 |
| | 51007 | USER2 | S4 | 17 | 0 | 0 | 0.000288 |
| | 51008 | USER2 | A1 | 17 | 0 | 1 | 0.031280 |
| | 51009 | USER2 | ET | 0 | 0 | 1 | 0.000064 |
| Command: _____ | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | | | |
| Help Sort Exit + ==> Menu | | | | | | | |

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPTRANNM | 1 | | | | | | | |
| SEQUENCE | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| CMD | 4 | | | | | | | |
| FILE | 5 | | | | | | | |
| RSP | 6 | | | | | | | |
| IOS | 7 | | | | | | | |
| ADADURA | 8 | | | | | | | |
| CMDRESP | 9 | | | | | | | |
| CQJOB | 10 | | | | | | | |
| COMMANDS | 11 | | | | | | | |

Report Options Selected

MAX K = 32

Report Processing Rules

TPTRANNM NE 0

Transaction Summary by User Report

Similar to the Transaction Count reports, the Transaction Summary by User calculates and displays information about a user's TP transaction for transaction numbers not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

Here is a sample report:

```

10:02:16                                TRANSACTION SUMMARY BY USER                                2003-07-07
                                09:55:25 1999-06-26 Thru 10:01:21 1999-06-26                                LOCL=00009
                                Total          Total          Total
TPUserid  Trans Nr          IOs          Commands          Total-Dur
-----
USER1      654              4              4              0.048944
           655              11             11             0.218096
           656              2              4              0.048512
*****
USER2      552              12             9              0.211936
           553              4              3              0.108320
           554              3              1              0.105456
           555              4              2              0.103792
           556              4              2              0.125264
           557              3              3              0.076016
           558              0              3              0.005376
*****
USER3      2280            5              11             0.100288
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                               +                               ==> Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPUSERID | 1 | | | | | | | |
| TPTRANNM | 2 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

MAX K = 16

Report Processing Rules

TPTRANNM NE 0

Who is Using Natural? Report

The Who is Using Natural? report shows processing activity broken down by the individual user. Users are identified by their TP user ID.

| 10:51:51 | | WHO IS USING NATURAL | | | | 2010-06-24 | |
|----------|----------|----------------------|------------|---------------|---------------------|-------------------|--|
| | | 10:51:40 | 2010-06-24 | Thru 10:51:50 | 2010-06-24 | HUB=00205 | |
| | | | | | | Page: 1 | |
| TPUserid | NAT-Appl | NAT-Pgm | File | Cmd | Total Num-of-IOs | Total Commands | |
| XXX | SYSREVD | N-CHKMN | | 0 RC | 0 | 8 | |
| | SYSREVD | N-CHKMN | | 8 L3 | 0 | 8 | |
| | SYSREVD | N-CHKMN | | 8 S1 | 0 | 8 | |
| | SYSREVD | N-NTFILE | | 8 S1 | 0 | 2 | |
| | SYSREVD | P-DBER | | 0 RC | 0 | 5 | |
| | SYSREVD | P-DBER | | 8 L3 | 0 | 5 | |
| | SYSREVD | P-DBER | | 8 S1 | 0 | 6 | |
| | SYSREVD | P-DBLR | | 0 RC | 0 | 3 | |
| | SYSREVD | P-DBLR | | 8 L3 | 0 | 1 | |
| | SYSREVD | P-DBLR | | 8 S1 | 0 | 1 | |
| | SYSREVD | P-DBLR | | 33 L3 | 0 | 36 | |
| | SYSREVD | P-DBLS | | 0 RC | 0 | 1 | |
| | SYSREVD | P-DBLS | | 8 L3 | 2 | 1 | |

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- Rdsp + ==> Menu

| 10:51:51 | | WHO IS USING NATURAL | | | | 2010-06-24 | |
|----------|-------------------|----------------------|------------|---------------|------------|------------|--|
| | | 10:51:40 | 2010-06-24 | Thru 10:51:50 | 2010-06-24 | HUB=00205 | |
| TPUserid | Total Cmd-Resp | Total ADA-Dur | | | | | |
| XXX | 8.000000 | 8.388608 | | | | | |
| | 8.000000 | 8.388608 | | | | | |
| | 8.000000 | 8.388608 | | | | | |
| | 2.000000 | 2.097152 | | | | | |
| | 5.000000 | 5.242880 | | | | | |
| | 5.000000 | 5.242880 | | | | | |
| | 6.000000 | 6.291456 | | | | | |
| | 3.000000 | 3.145728 | | | | | |
| | 1.000000 | 1.048576 | | | | | |
| | 1.000000 | 1.048576 | | | | | |
| | 36.000000 | 37.748736 | | | | | |
| | 1.000000 | 1.048576 | | | | | |
| | 1.000000 | 1.048576 | | | | | |

Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Sort Exit -- Rdsp + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPUSERID | 1 | | | | | | | |
| NATAPPL | 2 | | | | | | | |
| NATPROG | 3 | | | | | | | |
| FILE | 4 | | | | | | | |
| CMD | 5 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| CMDRESP | | Y | | | | | | |
| ADADURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

None.

Who Uses SYSMAIN? Report

The Who Uses SYSMAIN? report shows jobs which are using SYSMAIN. The job name is shown, listing the individual users, denoted by the user's TP user ID.

The report processing rule "NATAPPL EQ SYSMAIN" assures that only jobs using SYSMAIN are shown. This processing rule may be modified to equal any Natural application name.

Here is a sample report:

```

10:05:06                                WHO USES SYSMAIN                                2003-07-07
                                09:57:38 1999-06-26 Thru 09:57:41 1999-06-26                                LOCL=00009
                                Total          Total          Total
                                Cmd-Resp      Commands      IOs
-----
COMPLETE USER1      0      0.000784      48      1
           USER1     15      0.000672      6       2
           USER1     16      0.000304      3       7
           USER1     17      0.011056     105     70
           USER1     18      0.001280      6      10
***** ***** ****              0.014096     168     90
***** ***** ****              0.014096     168     90
*****  E N D      O F      R E P O R T      *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                                ==> Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| CQJOB | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| FILE | 3 | | | | | | | |
| CMDRESP | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| ADADURA | | Y | | | | | | |

Report Options Selected

Defaults.

Report Processing Rules

NATAPPL EQ SYSMAIN

Worst Calls... Reports

The six Worst Calls reports list and calculate information about the 100 "worst" Adabas calls. Each report rates its commands according to certain criteria:

| Worst Calls by ... | Selects the 100 calls that ... |
|--------------------|---|
| ADADURA | required the most Adabas processing time, and calculates a total for Adabas processing time. |
| CQDURA | spent the longest time in the command queue, and calculates a total for command queue duration. |
| DESCUPD | required the most descriptor updates, and calculates the total number of descriptor updates. |
| IOS | caused the most I/O operations to be performed, and calculates the total number of I/Os. |
| ISNQ | required the most ISNs, and calculates the total number of ISNs. |
| TOTDURA | required the longest processing time (i.e., time in the command queue and Adabas processing time) and calculates a total for processing time. |

- Worst Calls by ADADURA Report
- Worst Calls by CQ DURA Report
- Worst Calls by DESC UPD Report
- Worst Calls by IOs Report
- Worst Calls by ISN QUAN Report
- Worst Calls by TOTDURA Report

Worst Calls by ADADURA Report

The Worst Calls by ADADURA report is an example of a Worst Calls report.

```

11:48:29                                WORST CALLS BY-> ADADURA                                2010-06-24
                                           11:48:22 2010-06-24 Thru 11:48:28 2010-06-24                                LOCL=00204
                                                                                                             Page:    1
-----
Sequence      CQ-Job  TPUserid NAT-Appl NAT-Pgm  Cmd  File      ADA-Dur
-----
123 XXX      XXX      SYSREVD  SR-00016 V4      0      0.000000
122 XXX      XXX      SYSREVD  SR-00016 S1      8      0.000071
121 XXX      XXX      SYSREVD  SR-00016 S1      8      0.005856
120 XXX      XXX      SYSREVD  P-DBVWRT RC      0      0.000384
119 XXX      XXX      SYSREVD  P-DBVWRT RC      0      0.000065
118 XXX      XXX      SYSREVD  P-DBVWRT L3      8      0.006766
117 XXX      XXX      SYSREVD  P-DBVWRT S1      8      0.000104
116 XXX      XXX      SYSREVD  USR1029N RC      0      0.000119
115 XXX      XXX      SYSREVD  USR1029N L3      8      0.014382
*****
***** E N D O F R E P O R T *****
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --  Rdsp  +                      ==>  Menu
    
```

```

11:48:29                                WORST CALLS BY-> ADADURA                                2010-06-24
                                           11:48:22 2010-06-24 Thru 11:48:28 2010-06-24                                LOCL=00204
-----
Sequence      Num-of-IOs  Cmd-Resp      Total ADA-Dur      Total Commands
-----
123           0           0.000000      0.000000          1
122           0           0.044000      0.000071          1
121           2           0.151750      0.005856          1
120           0           0.007500      0.000384          1
119           0           0.007625      0.000065          1
118           9           0.761750      0.006766          1
117           0           0.049000      0.000104          1
116           0           0.008000      0.000119          1
115           4           0.406875      0.014382          1
*****
*****          *****          0.027747          9
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --  Rdsp  +                      <===  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| ADADURA | 8 | Y | | | | | | |
| IOS | 9 | | | | | | | |
| CMDRESP | 10 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by CQ DURA Report

The Worst Calls by CQ DURA report is an example of a Worst Calls report.

```

12:08:15                                WORST CALLS BY-> CQ DURA                                2010-06-24
                                12:08:10 2010-06-24 Thru 12:08:14 2010-06-24                                LOCL=00204
                                                                                               Page:      1
-----
Sequence      CQ-Job  TPUserid NAT-Appl NAT-Pgm  Cmd  File      CQ Dur
-----
277 XXX      XXX      SYSREVD  SR-00014 V4      0      0.000000
276 XXX      XXX      SYSREVD  SR-00014 S1      8      0.000384
275 XXX      XXX      SYSREVD  SR-00014 S1      8      0.000080
274 XXX      XXX      SYSREVD  P-DBLS   RC      0      0.000032
273 XXX      XXX      SYSREVD  P-DBLS   RC      0      0.000288
272 XXX      XXX      SYSREVD  P-DBLS   L3      8      0.000160
271 XXX      XXX      SYSREVD  P-DBLS   S1      8      0.000064
*****
***** E N D   O F   R E P O R T   *****
*****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --   Rdsp  +                               ==>  Menu
    
```

```

12:08:15                                WORST CALLS BY-> CQ DURA                                2010-06-24
                                12:08:10 2010-06-24 Thru 12:08:14 2010-06-24                                LOCL=00204
-----
Sequence      ADA-Dur      Num-of-IOs      Total
                                CQ Dur
-----
277          0.000000          0          0.000000
276          0.000487          0          0.000384
275          0.000167          0          0.000080
274          0.000027          0          0.000032
273          0.000319          0          0.000288
272          0.013165          7          0.000160
271          0.009379          1          0.000064
*****
*****                                0.001008
*****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --   Rdsp  +                               <===  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| CQDURA | 8 | Y | | | | | | |
| ADADURA | 9 | | | | | | | |
| IOS | 10 | | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by DESC UPD Report

The Worst Calls by DESC UPD report is an example of a Worst Calls report.

```

12:12:17                                WORST CALLS BY-> DESC UPD                                2010-06-24
                                12:12:16 2010-06-24 Thru 12:12:16 2010-06-24                                LOCL=00204
                                                                                               Page:      1

```

| Sequence | CQ-Job | TPUserid | NAT-Appl | NAT-Pgm | Cmd | File | Desc-Upd |
|-----------------------------------|--------|----------|----------|----------|-----|------|----------|
| 585 | XXX | XXX | SYSREVDB | SR-00015 | V4 | 0 | 0 |
| 584 | XXX | XXX | SYSREVDB | P-DBVWRT | RC | 0 | 0 |
| 583 | XXX | XXX | SYSREVDB | P-DBVWRT | RC | 0 | 0 |
| 582 | XXX | XXX | SYSREVDB | P-DBVWRT | L3 | 8 | 0 |
| 581 | XXX | XXX | SYSREVDB | P-DBVWRT | S1 | 8 | 0 |
| 580 | XXX | XXX | SYSREVDB | USR1029N | RC | 0 | 0 |
| 579 | XXX | XXX | SYSREVDB | USR1029N | L3 | 8 | 0 |
| 578 | XXX | XXX | SYSREVDB | USR1029N | S1 | 8 | 0 |
| 577 | XXX | XXX | SYSREVDB | NAT00060 | RC | 0 | 0 |
| ***** | | | | | | | |
| ***** E N D O F R E P O R T ***** | | | | | | | |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Sort Exit -- Rdsp + ==> Menu

```

12:12:17                                WORST CALLS BY-> DESC UPD                                2010-06-24
                                12:12:16 2010-06-24 Thru 12:12:16 2010-06-24                                LOCL=00204

```

| Sequence | ADA-Dur | Num-of-IOs | Total Desc-Upd | Total Commands |
|----------|----------|------------|----------------|----------------|
| 585 | 0.000000 | 0 | 0 | 1 |
| 584 | 0.000117 | 0 | 0 | 1 |
| 583 | 0.000100 | 0 | 0 | 1 |
| 582 | 0.000481 | 0 | 0 | 1 |
| 581 | 0.007516 | 0 | 0 | 1 |
| 580 | 0.000493 | 0 | 0 | 1 |
| 579 | 0.003002 | 0 | 0 | 1 |
| 578 | 0.000925 | 0 | 0 | 1 |
| 577 | 0.000040 | 0 | 0 | 1 |
| ***** | | | 0 | 9 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Sort Exit -- Rdsp + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| DESUPD | 8 | Y | | | | | | |
| ADADURA | 9 | | | | | | | |
| IOS | 10 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by IOs Report

The Worst Calls by IOs report is an example of a Worst Calls report.

```

12:20:02                                WORST CALLS BY-> IOS                                2010-06-24
                                12:19:53 2010-06-24 Thru 12:20:01 2010-06-24                                LOCL=00204
                                                                                               Page:    1

```

| Sequence | CQ-Job | TPUserid | NAT-Appl | NAT-Pgm | Cmd | File | Num-of-IOs |
|----------|--------|----------|----------|----------|-----|------|------------|
| 767 | XXX | XXX | SYSREVD | SR-00017 | V4 | | 0 |
| 766 | XXX | XXX | SYSREVD | P-DBVWRT | RC | | 0 |
| 765 | XXX | XXX | SYSREVD | P-DBVWRT | RC | | 0 |
| 764 | XXX | XXX | SYSREVD | P-DBVWRT | L3 | | 8 |
| 763 | XXX | XXX | SYSREVD | P-DBVWRT | S1 | | 8 |
| 762 | XXX | XXX | SYSREVD | USR1029N | RC | | 0 |
| 761 | XXX | XXX | SYSREVD | USR1029N | L3 | | 8 |
| 760 | XXX | XXX | SYSREVD | USR1029N | S1 | | 8 |

***** E N D O F R E P O R T *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Sort Exit -- Rdsp + ==> Menu

```

12:20:02                                WORST CALLS BY-> IOS                                2010-06-24
                                12:19:53 2010-06-24 Thru 12:20:01 2010-06-24                                LOCL=00204

```

| Sequence | ADA-Dur | Cmd-Resp | Total Num-of-IOs | Total Commands |
|----------|----------|----------|------------------|----------------|
| 767 | 0.000000 | 0.000000 | 0 | 1 |
| 766 | 0.000096 | 0.007250 | 0 | 1 |
| 765 | 0.000211 | 0.012875 | 0 | 1 |
| 764 | 0.026738 | 1.184625 | 7 | 1 |
| 763 | 0.000160 | 0.095125 | 0 | 1 |
| 762 | 0.000620 | 0.004750 | 0 | 1 |
| 761 | 0.000252 | 0.175750 | 0 | 1 |
| 760 | 0.000708 | 0.087625 | 0 | 1 |
| ***** | | | 7 | 8 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Sort Exit -- Rdsp + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| IOS | 8 | Y | | | | | | |
| ADADURA | 9 | | | | | | | |
| CMDRESP | 10 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by ISN QUAN Report

The Worst Calls by ISN QUAN report is an example of a Worst Calls report.

```

12:25:36                                WORST CALLS BY-> ISN QUAN                                2010-06-24
                                12:25:27 2010-06-24 Thru 12:25:35 2010-06-24                                LOCL=00204
                                                                                               Page:      1

```

| Sequence | CQ-Job | TPUserid | NAT-Appl | NAT-Pgm | Cmd | File | ISN-Qty |
|----------|--------|----------|----------|---------|-----|------|---------|
| 934 | XXX | XXX | SYSREVD | P-DBVWR | L3 | 8 | 0 |
| 933 | XXX | XXX | SYSREVD | P-DBVWR | S1 | 8 | 1 |
| 932 | XXX | XXX | SYSREVD | USR1029 | RC | 0 | 0 |
| 931 | XXX | XXX | SYSREVD | USR1029 | L3 | 8 | 0 |
| 930 | XXX | XXX | SYSREVD | USR1029 | S1 | 8 | 1 |

***** E N D O F R E P O R T *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + ==> Menu

```

12:25:36                                WORST CALLS BY-> ISN QUAN                                2010-06-24
                                12:25:27 2010-06-24 Thru 12:25:35 2010-06-24                                LOCL=00204

```

| Sequence | ADA-Dur | Num-of-IOs | Total ISN-Qty | Total Commands |
|----------|----------|------------|---------------|----------------|
| 934 | 0.015030 | 7 | 0 | 1 |
| 933 | 0.000056 | 0 | 1 | 1 |
| 932 | 0.000026 | 0 | 0 | 1 |
| 931 | 0.000107 | 0 | 0 | 1 |
| 930 | 0.000096 | 0 | 1 | 1 |
| ***** | | | 2 | 5 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| CQJOB | 2 | | | | | | | |
| TPUSERID | 3 | | | | | | | |
| NATAPPL | 4 | | | | | | | |
| NATPROG | 5 | | | | | | | |
| CMD | 6 | | | | | | | |
| FILE | 7 | | | | | | | |
| ISNQ | 8 | Y | | | | | | |
| ADADURA | 9 | | | | | | | |
| IOS | 10 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by TOTDURA Report

The Worst Calls by TOTDURA report is an example of a Worst Calls report.

```

12:41:07                                WORST CALLS BY-> TOTDURA                                2010-06-24
                                           12:41:07 2010-06-24 Thru 12:41:07 2010-06-24                                LOCL=00204
                                                                                                                                Page:    1

```

| Sequence | TPUserid | NAT-Pgm | Cmd | Total-Dur | ADA-Dur |
|-----------------------------------|----------|----------|-----|-----------|----------|
| 1110 | XXX | SR-00019 | V4 | 0.000000 | 0.000000 |
| 1109 | XXX | SR-00019 | S1 | 0.000344 | 0.000184 |
| 1108 | XXX | SR-00019 | S1 | 0.001312 | 0.000720 |
| 1107 | XXX | P-DBVWRT | RC | 0.000035 | 0.000019 |
| 1106 | XXX | P-DBVWRT | RC | 0.000075 | 0.000043 |
| ***** | | | | | |
| ***** E N D O F R E P O R T ***** | | | | | |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + ==> Menu

```

12:41:07                                WORST CALLS BY-> TOTDURA                                2010-06-24
                                           12:41:07 2010-06-24 Thru 12:41:07 2010-06-24                                LOCL=00204

```

| Sequence | CQ Dur | File | CQ-Job | NAT-Appl | Total Dur |
|----------|----------|-------|--------|----------|-----------|
| 1110 | 0.000000 | 0 XXX | | SYSREVDB | 0.000000 |
| 1109 | 0.000160 | 8 XXX | | SYSREVDB | 0.000344 |
| 1108 | 0.000592 | 8 XXX | | SYSREVDB | 0.001312 |
| 1107 | 0.000016 | 0 XXX | | SYSREVDB | 0.000035 |
| 1106 | 0.000032 | 0 XXX | | SYSREVDB | 0.000075 |
| ***** | | | | | 0.001766 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + <=== ==> Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| SEQUENCE | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| NATPROG | 3 | | | | | | | |
| CMD | 4 | | | | | | | |
| TOTDURA | 5 | Y | | | | | | |
| ADADURA | 6 | | | | | | | |
| CQDURA | 7 | | | | | | | |
| FILE | 8 | | | | | | | |
| CQJOB | 9 | | | | | | | |
| NATAPPL | 10 | | | | | | | |
| COMMANDS | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Transactions... Reports

The three Worst Transactions reports list and calculate information about the 100 worst transactions. Each report rates its transactions according to certain criteria:

| Worst Transactions by ... | Selects the 100 transactions that ... |
|---------------------------|--|
| Calls | issued the most Adabas calls. |
| Duration | required the most Adabas processing time, including time spent in the command queue. |
| IOS | caused the most I/O operations to be performed. |

The number of transactions shown can be varied from 100, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=50" displays the 50 worst transactions.

- Worst Transactions by Calls Report

- Worst Transactions by Duration Report
- Worst Transactions by IOs Report

Worst Transactions by Calls Report

The report Worst Transactions by Calls report is an example of a Worst Transactions report.

```

12:47:50                                WORST TRANSACTIONS BY CALLS                                2010-06-24
                                           12:45:38 2010-06-24 Thru 12:47:49 2010-06-24                                LOCL=00204
                                                                                                                    Page: 1
-----
Trans Nr  TPUserid NAT-Appl  Total      Total      Total
           TPUserid NAT-Appl  Num-of-IOs  Commands  Total-Dur
-----
           0 XXX      SYSREVDB          9          56          0.053288
*****  *****  *****          9          56          0.053288

*****  E N D      O F      R E P O R T      *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --  Rdsp  +                                ==>  Menu
    
```

```

12:47:50                                WORST TRANSACTIONS BY CALLS                                2010-06-24
                                           12:45:38 2010-06-24 Thru 12:47:49 2010-06-24                                LOCL=00204

Trans Nr  Total      Total
           ADA-Dur      CQ Dur
-----
           0          0.036936      0.016352
           0          0.036936      0.016352

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --  Rdsp  +                                <===  Menu
    
```


This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPTRANNM | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| NATAPPL | 3 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

DISPLAY BY = USAGE
ENTRIES = 100

Report Processing Rules

None.

Worst Transactions by Duration Report

The report Worst Transactions by Duration report is an example of a Worst Transactions report.

```

12:52:32                WORST TRANSACTIONS BY DURATION                2010-06-24
                        12:52:20 2010-06-24 Thru 12:52:31 2010-06-24    LOCL=00204
                                                Page:    1

```

| Trans Nr | TPUserid | NAT-Appl | Total Total-Dur | Total Commands | Total Num-of-IOs |
|-----------------------------------|----------|-----------|--------------------|-------------------|---------------------|
| 0 | XXX | SYSREVDDB | 0.075285 | 50 | 9 |
| ***** | ***** | ***** | 0.075285 | 50 | 9 |
| ***** E N D O F R E P O R T ***** | | | | | |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + <==> Menu

```

12:52:32                WORST TRANSACTIONS BY DURATION                2010-06-24
                        12:52:20 2010-06-24 Thru 12:52:31 2010-06-24    LOCL=00204

```

| Trans Nr | Total ADA-Dur | Total CQ Dur |
|----------|------------------|-----------------|
| 0 | 0.071541 | 0.003744 |
| | 0.071541 | 0.003744 |

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Sort Exit -- Rdsp + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPTRANNM | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| NATAPPL | 3 | | | | | | | |
| TOTDURA | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| IOS | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Transactions by IOs Report

The report Worst Transactions by IOs report is an example of a Worst Transactions report.

```

12:56:58                                WORST TRANSACTIONS BY IOS                                2010-06-24
                                12:56:48 2010-06-24 Thru 12:56:58 2010-06-24                                LOCL=00204
                                                                                                            Page: 1
Trans Nr   TPUserid NAT-Appl   Total          Total          Total
          TPUserid NAT-Appl   Num-of-IOs     Commands      Total-Dur
-----
          0 XXX      SYSREVDB                9              71           0.054694
***** ***** *****                9              71           0.054694

*****  E N D    O F    R E P O R T    *****

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --   Rdsp   +                ==>  Menu
    
```

```

12:56:58                                WORST TRANSACTIONS BY IOS                                2010-06-24
                                12:56:48 2010-06-24 Thru 12:56:58 2010-06-24                                LOCL=00204

Trans Nr          Total          Total
                ADA-Dur         CQ Dur
-----
                0          0.042710          0.011984
                0.042710          0.011984

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit          --      Rdsp  +          <===      Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

| Field System Name | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
|-------------------|-------|-----|-----|-----|-----|-----|------|-------|
| TPTRANNM | 1 | | | | | | | |
| TPUSERID | 2 | | | | | | | |
| NATAPPL | 3 | | | | | | | |
| IOS | | Y | | | | | | |
| COMMANDS | | Y | | | | | | |
| TOTDURA | | Y | | | | | | |
| ADADURA | | Y | | | | | | |
| CQDURA | | Y | | | | | | |

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.